

Title (en)

Apparatus for applying surgical clips.

Title (de)

Vorrichtung zum Anbringen von Klammern.

Title (fr)

Appareillage d'application de clips chirurgicaux.

Publication

EP 0656190 A2 19950607 (EN)

Application

EP 94115677 A 19941005

Priority

US 13434793 A 19931008

Abstract (en)

An apparatus 10 is provided for applying surgical clips which includes provisions for applying a partially closed clip to ducts or shunts during a surgical procedure such as cholecystectomy procedures. The apparatus includes means 40 for effecting a partial closing stroke of the handle mechanism to correspond to a partial closure of the jaw members, and permits a partial opening stroke to release the partially closed clip in the jaw mechanism. Other features of the invention include means 156 for preventing over-advancement of a clip to the jaw mechanism, means 60 for cradling the clip as it is advanced from the clip supply to the jaw mechanism, means 74 for preventing splaying of the jaws in the event of a clip-over-clip application, and a novel rotation collar 22. The instrument of the present invention provides the surgeon with visual, audible, and tactile indication of the positioning of the jaw members to effect the application of a partially closed clip. <IMAGE>

IPC 1-7

A61B 17/128

IPC 8 full level

A61B 17/128 (2006.01); **A61B 17/28** (2006.01)

CPC (source: EP US)

A61B 17/1285 (2013.01 - EP US); **A61B 2017/2929** (2013.01 - EP US); **Y10S 227/901** (2013.01 - EP US)

Cited by

DE29616632U1; CN103536324A; EP1405601A1; EP0834286A1; AU743794B2; WO2020034130A1

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

US 5755726 A 19980526; CA 2131973 A1 19950409; CA 2131973 C 20050524; DE 69425417 D1 20000907; DE 69425417 T2 20010125; EP 0656190 A2 19950607; EP 0656190 A3 19951213; EP 0656190 B1 20000802; ES 2148263 T3 20001016; US 5607436 A 19970304; US 5792150 A 19980811

DOCDB simple family (application)

US 69188796 A 19960801; CA 2131973 A 19940913; DE 69425417 T 19941005; EP 94115677 A 19941005; ES 94115677 T 19941005; US 13434793 A 19931008; US 47660795 A 19950607